

Zakia Sultana

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Shankar, West Dhanmondi, Dhaka 1209





OBJECTIVE

A highly motivated and detail-oriented individual with a strong foundation in information technology and software development. I am passionate about applying my academic knowledge to real-world challenges. My goal is to leverage my technical skills and problem-solving abilities in a collaborative team environment, contributing to innovative solutions while continuously expanding my expertise in emerging technologies.

EDUCATION

- Ahsanullah University of Science and Technology** December 2020 - January 2025
BSc. in Computer Science and Engineering (CSE)
◦ **CGPA:** 3.538/4.00
Dhaka, Bangladesh
- Cantonment Public School and College Rangpur** July 2017 - April 2019
HSC (Science)
◦ **GPA:** 5.00/5.00
Rangpur, Bangladesh
- Cantonment Public School and College Rangpur** January 2015 - February 2017
SSC (Science)
◦ **GPA:** 5.00/5.00
Rangpur, Bangladesh

PROJECTS

- Rent and Run: [A car rental website]** September 2023
Tools: [ASP.NET (MVC), C#, JavaScript, HTML, CSS, MSSQL, Visual Studio] 
◦ Designed and developed a fully functional car rental website using the ASP.NET MVC framework with a front-end developed in HTML, JavaScript, and CSS, and a back-end powered by C# and Microsoft SQL Server.
- Library Management System: [A web application for virtual library]** September 2023
Tools: [ASP.NET (MVC), C#, JavaScript, HTML, CSS, MSSQL, Visual Studio] 
◦ Developed a Library Management System using ASP.NET (MVC). C# as a programming language and Microsoft SQL Server for Database
- Cash and Carry: [A desktop application for supershop management]** February 2023
Tools: [Java, Java Swing, MSSQL, Netbeans] 
◦ Developed a SuperShop management system using JAVA Swing and Microsoft SQL Server for Database.
- BookApp: [Book reading application]** August 2022
Tools: [Kotlin, Firebase, Android Studio] 
◦ Developed an online book reading application using Android Studio, Kotlin programming language and firebase as database.

RESEARCH EXPERIENCE

- Algorithmic Trading and Machine Learning for Profit Maximization - A Case Study on Dhaka Stock Exchange**
Mentors: Professor Dr. Mohammad Shafiul Alam (Ahsanullah University of Science and Technology)
◦ Thesis on stock price prediction, divergence detection in the daily chart using custom algorithms, and identifying its type. Build some trading strategy based on technical indicators and perform back-testing on historical data.
- Beyond the Laughter: Detecting Hatefull Memes with Deep Learning** 2024
Mentors: Md. Tanvir Rouf Shawon, Mr. Rayhan Tanvir (Ahsanullah University of Science and Technology)
◦ Conducted research on the [MUTE](#) multimodal hate speech dataset. Summary of findings available [here](#).
- Assessing Credit Risk of Bank Customers using Machine Learning Algorithms** 2024
Mentors: Mr. Faisal Muhammad Shah, Md. Zahid Hasan (Ahsanullah University of Science and Technology)
◦ This research focused on predicting which bank customers are likely to be risky in terms of credit repayment by using a [kaggle](#) 'credit risk' dataset. Summary of findings available [here](#).
- Classification of Forest Cover Type Based on Soil Characteristics using Machine Learning** 2024
Mentors: Dr. Md. Shamim Akhter, Md. Zahid Hasan, Mr. Md Rasheduzzaman (Ahsanullah University of Science and Technology)
◦ This research focused on classifying forest cover types based on soil characteristics through big data analysis by employing the PySpark library. Summary of findings available [here](#).

SKILLS

- Programming Languages:** CSS, HTML, JavaScript, C++, Python, C#
- Software Testing:** Manual Testing, Automation Testing (Selenium)
- Database Systems:** MSSQL, MySQL
- Tools:** MS Office, Google Workspace, Git, LaTeX, MATLAB
- Languages:** Bengali (Native), English (Fluent)
- Others:** Organizing, Event Management

REFERENCES

Dr. Mohammad Shafiul Alam
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Ahsanullah University of Science and Technology
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Relationship: [Thesis Supervisor, Course Teacher]